Abstract

A roller truck for supporting a rotating drum of a CT scanner, including a spring plate having opposing ends, top and bottom surfaces and unconstrained side edges. At least two axles are secured to the spring plate, and an attachment member is secured to the spring plate between the two axles. The attachment member is for securing the roller truck to one of a

5   support frame of the CT scanner and the drum mounted for rotation on the frame. Rollers are rotatably mounted on each axle of the truck for supporting and allowing the instrument drum to rotate. The spring plate is free to resiliently bend about the attachment member and is adapted such that, when the instrument drum is rotated, resulting vibration frequencies are shifted by the roller truck to minimize distortions in images produced by the CT scanner.